501.37436CV2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: NISHIHARA et al.

Serial No.: Rule 53(b) of 09/380,735

Filed: November 26, 2003

For: METHOD OF FABRICATING SEMICONDUCTOR INTEGRATED

CIRCUIT DEVICE

Art Unit: Unassigned (2811 previously in parent application)

Examiner: Unassigned (D. Kang previously in parent application)

<u>INFORMATION DISCLOSURE STATEMENT</u> <u>UNDER 37 CFR §1.97 AND §1.98</u>

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 November 26, 2003

Sir:

Pursuant to Applicants' duty of disclosure, enclosed please find a List, on a form substantially equivalent to Form PTO-1449, of documents cited in connection with a prior application of the above-identified application, Application No. 09/380,735, given a filing date in view of 35 USC §371 of February 4, 2000. The enclosed List also includes thereon the enclosed article by Takao, et al., from the 1997 Symposium on VLSI Technology Digest of Technical Papers.

Apart from the enclosed article by Takao, et al., all other documents on the enclosed List were either cited by the Examiner during prosecution of Application No. 09/380,735 or were cited by Applicants, on a proper form substantially equivalent to Form PTO-1449, in Application No. 09/380,735. Since Application

No. 09/380,735 is being relied upon in the above-identified application under 35 USC §120, copies of the listed documents, except for the aforementioned Takao, et al., article, are not enclosed.

This Information Disclosure Statement is being submitted concurrently with the filing of the above-identified application. Accordingly, requirements of 37 CFR §1.97(b) are satisfied.

In view of the foregoing, it is respectfully submitted that all applicable requirements of 37 CFR §1.97 and §1.98 have been satisfied, in connection with each of the documents on the enclosed List. Accordingly, consideration of the listed documents, upon examination of the above-identified application, is respectfully requested.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees and excess claim fees, to Deposit Account No. 01-2135 (referencing case No. 501.37436CV2) and please credit any excess fees to such deposit account.

Respectfully submitted,

Alan E. Schiavelli

Registration No. 32,087

ANTONELLI, TERRY, STOUT & KRAUS, LLP

WIS/pay (703) 312-6600

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO.	APPLICATION NO.		
		501.37436VC2	TBD		
		APPLICANT			
INFORMAT	ION DISCLOSURE STATEMENT BY APPLICANT	Nishihara, et al.			
(Use s	everal sheets if necessary)	FILING DATE	EXPECTED GROUP		
		November 26, 2003	2811		

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
AA	5,691,225	11/25/1997	Abiko		:	
АВ	5,652,176	7/29/1997	Maniar, et al.		-	
AC	5,736,461	4/7/1998	Berti, et al.			
AD	5,316,977	5/31/1994	Kunishima, et al.			
AE	5,576,579	11/19/1996	Agnello, et al.			

FOREIGN PATENT DOCUMENTS

Examiner		Document					Translation	
Initial	1	Number	Date	Country	Class	Subclass	Yes	No
	AE							
	AF							
	AG							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner		Date Considered			
Al	Patent Abstracts of Japan, for Publication No. 07003486A, published January 6, 1995				
АН	Chinese Office Action dated December 27, 2002, for corresponding Application No. 97182025.2 with English Translation				

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard St.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

FORM PTO-1449 U.S. Department of Commerce (Rev. 4/92) Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT		ATTY. DOCKET NO.		APPLICATION NO.			
		501.37436CV2 TBD					
		APPLICANT S. NISHIHARA, t al.					
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	5,998,284	12/07/1999	Azuma				
	6,018,185	01/25/2000	Mitani, et al.				
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						YES	NO
	6-192874	07/12/1994	Japan			X	
	6-192879	07/12/1994	Japan			х	
	6-204420	07/22/1994	Japan			x	
	7-78788	3/20/1995	Japan			х	
	8-167661	6/25/1996	Japan				×
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	W.T. Lynch, et al., Self- 1987, pps. 354-357, IEE		t Schemes For Source-D	rains l	n Submicron	Devices	,
			s or metals for very large	scale	integrated c	ircuit	
	applications, Nov/Dec 1	986, pps. 1325-	·1331, J. Vac. Sci. Ťechno	I. B 4	(6)		
	Eiji Nagasawa, et al., Mo- and Ti-Silicided Low-Resistance Shallow Junctions Formed Using th						
	lon Implantation Throug Devices, Vol. Ed-34, No		ique, March 1987, IEEE T	ransa	ctions On Ele	ectron	
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EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM PTO-1449 U.S. Department of Commerce (Rev. 4/92) Patent and Trademark Office			ATTY. DOCKET NO. APPLICATION NO. TBD			NO.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT S. NISHIHARA, et al.					
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		U.S. PATENT	DOCUMENTS	_			
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	5,635,426	6/3/1997	Hayashi, et al.				
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	BOCOMENT NOMBER	DATE	COUNTRY	CLASS	SUBCLASS		
	9-293790	11/11/1997	Japan			YES X	NO
	9-312391	12/02/1997	Japan				x
	9-320990	12/12/1997	Japan				х
	10-74846	03/17/1998	Japan			1	Х
	10-163485	06/19/1998	Japan			Х	
	10-294462	11/04/1998	Japan			1	Х
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		t al., Titanium Nitrid ron Devices, Vol. Ed	e Local Interconnect T d-34, No. 3	echnolo	gy for VLSI,	March 19	87,
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		J.S. PATENT	DOCUMENTS				
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	5,047,367	09/10/1991	Wei, et al.		0000000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
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	5,843,841	12/01/1998	Izawa, et al.				
	5,850,096	12/15/1998	Izawa, et al.				
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	DOCUMENT NUMBER DATE		COUNTRY	COUNTRY CLASS		Translation/ ABSTRACT	
	5-90293	04/09/1993	Japan			YES X	NO
	5-182982	7/23/1993	Japan	-			х
	5-102078	4/23/1993	Japan				х
	5-343632	12/24/1993	Japan				X
	6-192874	7/12/1994	Japan			Х	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) D.L. Kwong, et al., silicided shallow junctio formation by ion implantation of impurity ions int silicide layers and subsequent drive-in, 1 June 1997, pps. 5084-5088, J. Appl. Phys. 61 (11)						nt	
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EXAMINER DATE CONS		IDERED					
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